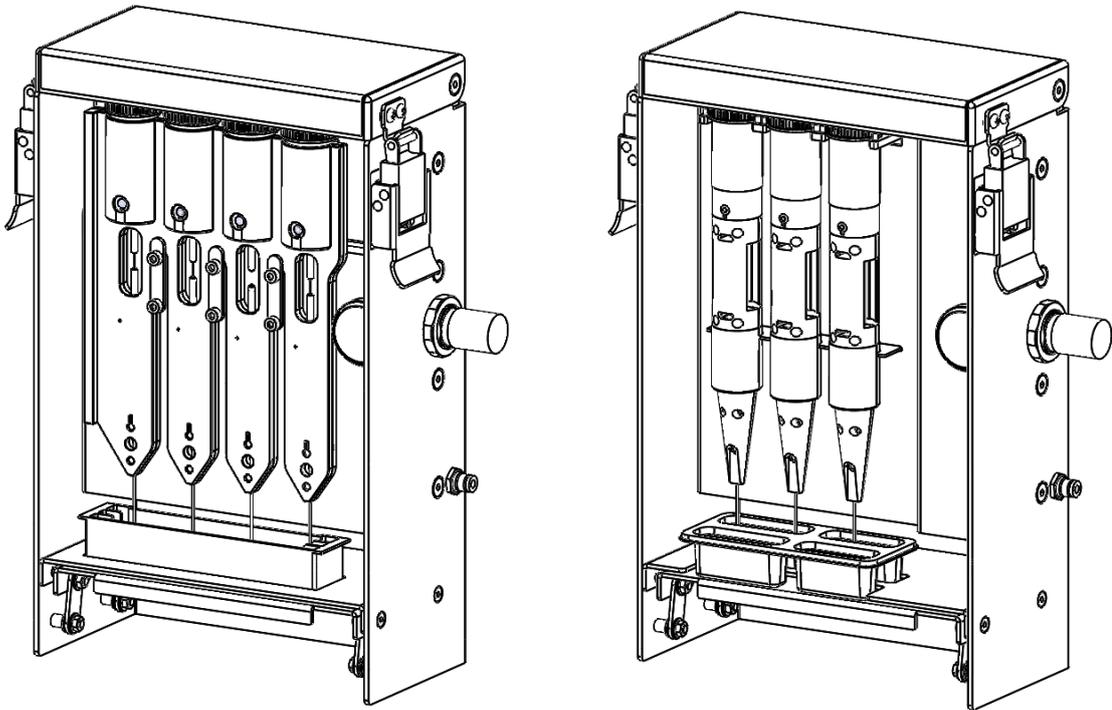


*Qube*<sup>™</sup>

Purge Station

**Operation Manual**



## Contents

1. Safety Precautions.....	3
2. System Overview.....	4
3. Unpacking.....	5
4. Installation.....	7
5. Operation .....	7
5.1 Initial Operation .....	7
5.2 Cartridge and buffer tray setting up.....	8
5.3 Adjust the pressure regulator to the required pressure .....	9
6. Operation for Clogged Cartridge .....	10
7. <i>Qube</i> -Purge Station Specifications.....	10

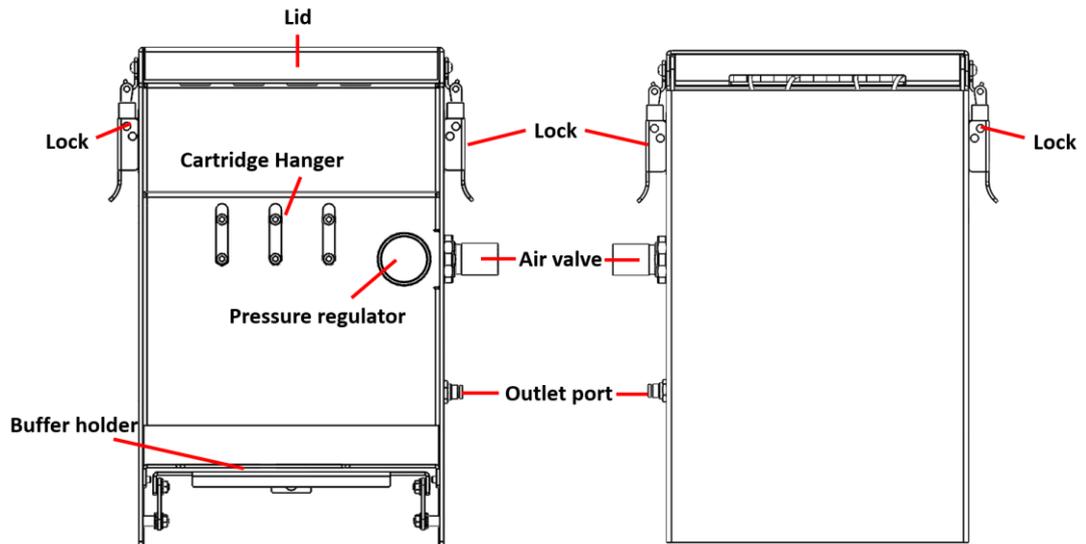
## 1. Safety Precautions

Before using the *Qube*<sup>TM</sup>-Purge Station, please read this operation manual carefully and pay attention to the safety information. To guarantee problem free operation, please follow the instructions and safety precautions to ensure safe operation of the *Qube*<sup>TM</sup>-Purge Station. It is essential to observe the following:

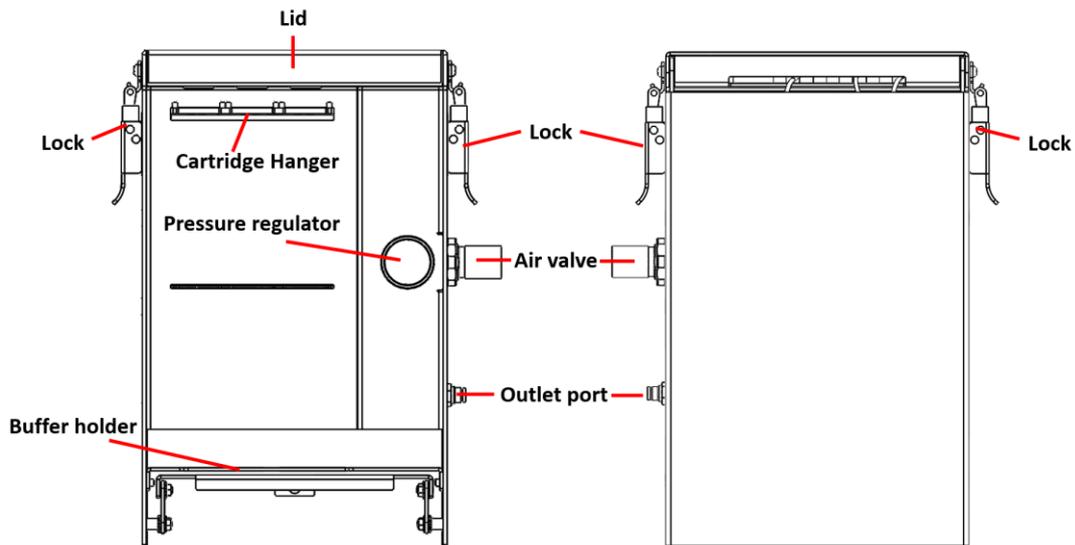
- I. Do not use the device in a potentially explosive environment or with potentially explosive chemicals.
- II. Choose a flat, stable surface capable of supporting the weight of the device.
- III. Please use both hands to open the two locks of the *Qube*<sup>TM</sup>-Purge Station to avoid it falling.
- IV. Don't need to lock the lid when the *Qube*<sup>TM</sup>-Purge Station is idle.
- V. Please check the black gasket before use the *Qube*<sup>TM</sup>-Purge Station. If it is wearing out, it could be replaced by the new one provided in the package.
- VI. Repairs should be carried out by authorized service personnel only.

## 2. System Overview

### I. *Qube*-Purge Station for 1-channel



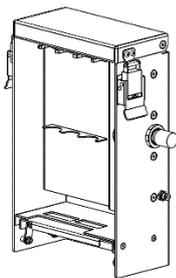
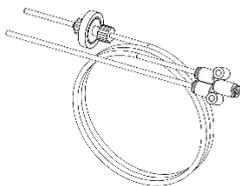
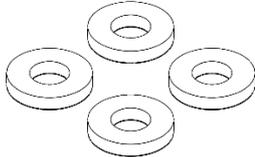
### II. *Qube*-Purge Station for 4-channel

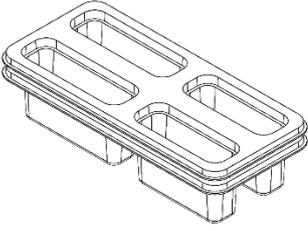
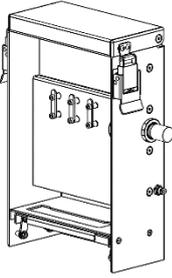
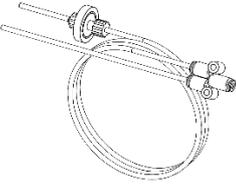
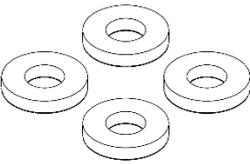
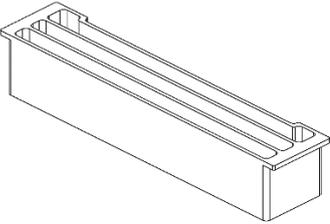


### 3. Unpacking

#### I. Unpacking List

Open the *Qube*<sup>TM</sup>-Purge Station package and confirm that all the listed items are included:

<b><i>Qube</i><sup>TM</sup>-Purge Station for 1-channel (C104002-100)</b>	
<i>Qube</i> <sup>TM</sup> -Purge Station unit x 1	
Air tube (with filter) x 1	
Dummy cartridge shells x 2 (for C104002-100)	
Black gasket	

Buffer tray x2 (for C104002-100)	
<b><i>Qube</i>-Purge Station for 4-channel (C104002-400)</b>	
<i>Qube</i> <sup>TM</sup> -Purge Station unit x 1	
Air tube (with filter) x 1	
Black gasket	
Buffer tray x1 (for C104002-400)	

If there is any item missing, damaged, or incorrect in the package, please contact your distributor or sales representative.

## 4. Installation

- I. Turn off the *Qair<sub>box</sub>* (C104301-00) or the Air Pump and connect the air tube
- II. Follow the below **picture** to connect the air tube

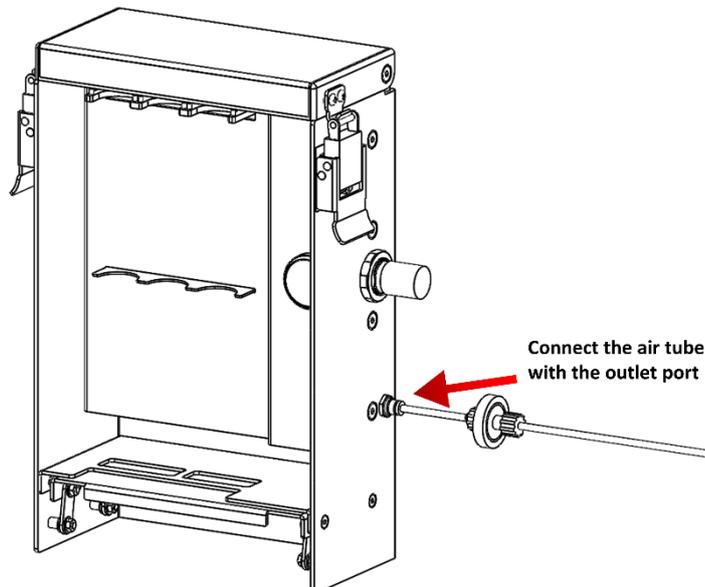


- III. Turn on the *Qair<sub>box</sub>* (C104301-00) or the Air Pump to make sure there is no leak from connectors and regulator
- ✧ The default setting of air valve on the *Qube*-Purge Station is opened.
  - ✧ To stop the leak, turn off the *Qair<sub>box</sub>* (C104301-00) or the Air Pump and reconnect the tubing

## 5. Operation

### 5.1 Initial Operation

Place the device on a steady, flat table. Connect 1/8 inch air tube with the outlet port which provides the air when connected to *Qube*-Purge Station.

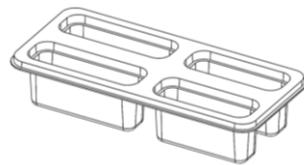


## 5.2 Cartridge and buffer tray setting up

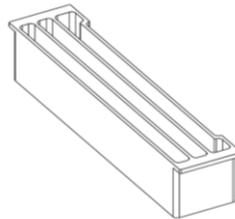
- I. Open the lid, slide the cartridge into cartridge hanger and put buffer tray into the buffer tray holder.
- II. Lock the lid and observe the tip of the cartridges, the gel droplet should be observed during the process.

Notice:

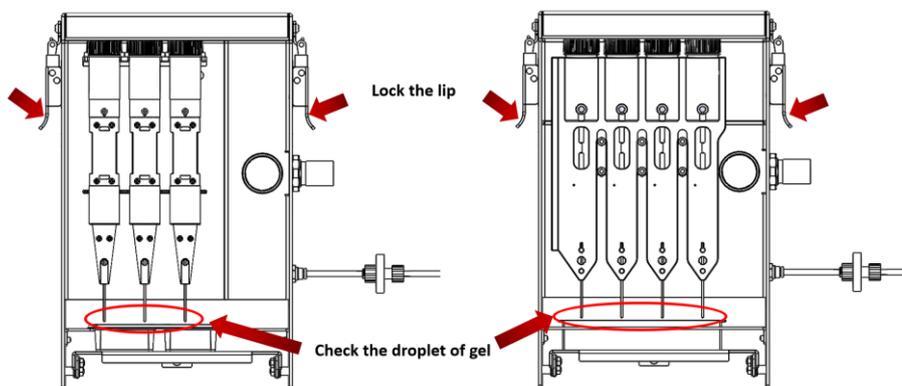
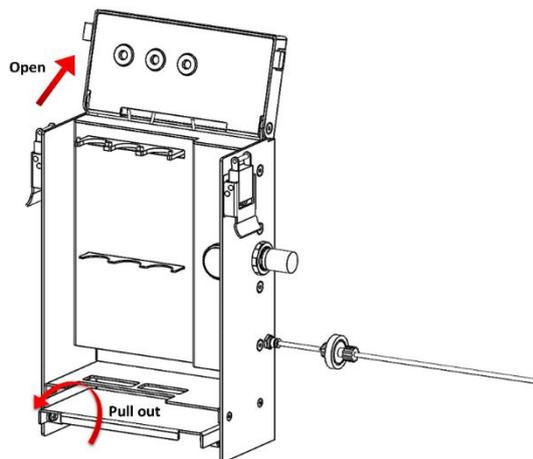
- ✧ For *Qube*-Purge Station for 1-channel, please remember to place three cartridges or use dummy cartridge shells we provided to prevent the leak
- ✧ Make sure the hole on the cartridge cap is punched



• Buffer Tray (for C104002-100)



• Buffer Tray (for C104002-400)



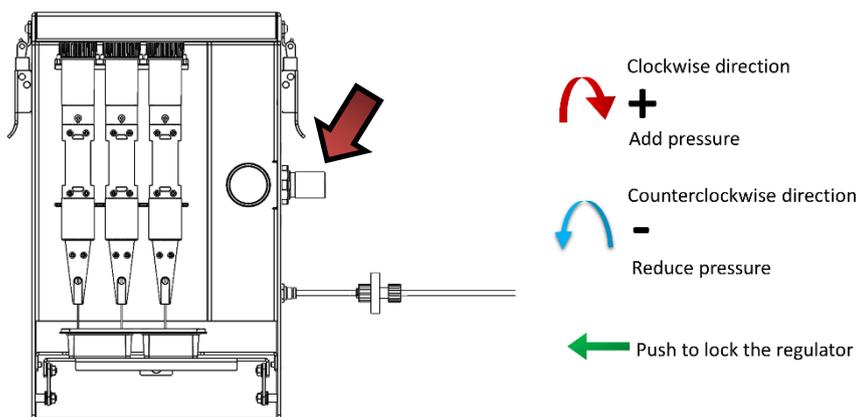
### 5.3 Adjust the pressure regulator to the required pressure

Follow **Table 1** to setup the regulator and start the purge process. Adjust the pressure by tuning on the pressure regulator in the clockwise direction and turning off in the counterclockwise direction. Check the pressure regulator to confirm the suitable pressure for cartridge purge. Observe the tip of the cartridges, the gel droplet should be observed during the process.

If NO gel droplet is formed, follow the protocol for clogged cartridge on the next section.

Notice:

Please release the pressure before opening the lid to avoid the back-suction which might lead to cartridge destruction.



**Table 1: Recommended settings**

Cartridge	S1	S2	S3	F3	C1	R1	P2	N1*	N3*	NR1*	G1
<b>New Cartridge</b>											
<b>Duration (Min.)</b>	10	8	5	10	15	5	10	10	5	5	10
<b>Pressure (MPa)</b>	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35
<b>Clogged Cartridge**</b>											
<b>Duration (Min.)</b>	30	25	20	30	45	20	30	30	20	20	30
<b>Pressure (MPa)</b>	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4

\*Remind to keep the N series cartridges in dark

\*\*For clogged cartridge, please soak the cartridge tip in hot water (70-100°C) during purge step. If the cartridge is still clogged, repeat purge step for 2-3 times.

After purging, please ensure the pressure regulator turning off to let the pressure release and open the lid. Take out the cartridges and the buffer tray.

## 6. Operation for Clogged Cartridge

- I. Add hot water (70°C~100°C) into the buffer tray and the water level should equal to the indicator line (buffer tray for C104002-100) or about 80% of the well (buffer tray for C104002-400)
- II. Follow 5.1-5.3 to set up the cartridge.
- III. Follow the **Table 1** (the second part for Clogged Cartridge) to start the purge process
- IV. Pull down the buffer hanger and check the cartridge tip. If gel droplet has not formed, repeat the 6.1~6.3 (3-4 times)  
(If the cartridge still clogged, please contact local distributors)

## 7. Qube-Purge Station Specifications

	<i>Qube-Purge Station for 1-channel (C104002-100)</i>	<i>Qube-Purge Station for 4-channel (C104002-400)</i>
<b>Dimensions (LWH)</b>	155x 80x 255 mm	155x 80x 255 mm
<b>Weights</b>	3.5 kg	3.5 kg
<b>Max-Pressure</b>	0.5 MPa	0.5 MPa